

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) Optical writing system ~~(102; 202)~~ for an optical disc writing apparatus ~~(101; 201)~~, comprising:

[[~~-~~]] an eight-to-fourteen encoder device ~~(10; 210)~~ having an input ~~(11)~~ for receiving a data signal ~~(SD)~~ and an output ~~(12; 212)~~ for providing a single encoded signal ~~(SEFMdata; SMUX)~~ which contains data information and clock information;

[[~~-~~]] a laser driver circuit ~~(120; 220)~~ having a signal input ~~(22; 222)~~ for receiving an encoded signal ~~(SEFMdata; SMUX)~~ from the eight-to-fourteen encoder device ~~(10; 210)~~ and comprising a flipflop device ~~(25)~~ with a data input ~~(D)~~ for receiving a digital data signal ~~(SEFMdata)~~, and a clock input ~~(CLK)~~ for receiving a digital clock signal ~~(SCLK)~~,

wherein the laser driver ~~circuit~~ circuit ~~(120; 220)~~ further comprises a signal generator means ~~(130; 230)~~ having a signal input ~~(131; 231)~~ coupled to the signal input ~~(22; 222)~~ of the laser driver circuit ~~(20; 220)~~, a data output ~~(132; 232)~~ coupled to the

data input ~~(D)~~ of the flipflop ~~(25)~~, and a clock output ~~(133; 233)~~ coupled to the clock input ~~(CLK)~~ of the flipflop ~~(25)~~;

the signal generator means ~~(130; 230)~~ being designed to generate at its data and clock outputs a digital data signal and a digital clock signal, respectively, from ~~an~~ the single encoded signal received at its signal input.

2. (Currently amended) ~~Optical~~ The optical writing system ~~(102)~~ according to claim 1, wherein the eight-to-fourteen encoder device ~~(10)~~ is designed to generate at its output ~~(12)~~ a digital data signal ~~(SEFMdata)~~, and wherein the signal generator means ~~(130)~~ comprises a clock signal regenerator means ~~(130)~~ designed for deriving a digital clock signal ~~(SCLK)~~ from a digital data signal ~~(SEFMdata)~~.

3. (Currently amended) ~~Optical~~ The optical writing system ~~(102)~~ according to claim 2, wherein the flipflop ~~(25)~~ and the clock signal regenerator means ~~(130)~~ are integrated into one unit.

4. (Currently amended) ~~Optical~~ The optical writing system ~~(202)~~ according to claim 1, wherein the eight-to-fourteen encoder device

~~(210)~~ is designed to generate at its output ~~(212)~~ a combined signal ~~(SMUX)~~ which is based on a combination of a digital data signal ~~(SEFMDdata)~~ and a digital clock signal ~~(SCLK)~~, and wherein the signal generator ~~means (230)~~ comprises ~~demultiplexing means (230)~~ a demultiplexer designed to regenerate a data signal ~~(SEFMDdata)~~ and a clock signal ~~(SCLK)~~ from a combined signal ~~(SMUX)~~ as coded by the eight-to-fourteen encoder (210) device.

5. (Currently amended) ~~Optical~~ The optical writing system ~~(202)~~ according to claim 4, wherein the flipflop ~~(25)~~ and the ~~demultiplexing means (230)~~ demultiplexer are integrated into one unit.

6. (Currently amended) ~~Optical~~ The optical writing system according to claim 1, wherein the signal generator ~~means (130; 230)~~ is arranged immediately before the flipflop device ~~(25)~~.

7. (Currently amended) ~~Optical~~ The optical recording apparatus ~~(101; 201)~~ for writing information to an optical storage medium, comprising ~~an~~ the optical writing system according to claim 1.

8. (Currently amended) Method for applying a digital data signal ~~(SEFMdata)~~ and a digital clock signal ~~(SCLK)~~ to a flipflop device ~~(25)~~ of a laser driver circuit ~~(120; 220)~~, the method comprising the steps of:

[[ - ]] providing a single eight-to-fourteen encoded signal ~~(SEFMdata; SMUX)~~ which contains data information and clock information;

[[ - ]] transferring said single eight-to-fourteen encoded signal ~~(SEFMdata; SMUX)~~ to the laser driver circuit ~~(120; 220)~~;

[[ - ]] deriving a digital data signal ~~(SEFMdata)~~ and a digital clock signal ~~(SCLK)~~ from said single eight-to-fourteen encoded signal ~~(SEFMdata; SMUX)~~;

[[ - ]] applying the derived digital data signal ~~(SEFMdata)~~ and the derived digital clock signal ~~(SCLK)~~ to said flipflop device ~~(25)~~.

9. (Currently amended) ~~Method~~ The method according to claim 8, wherein said single eight-to-fourteen encoded signal ~~(SEFMdata; SMUX)~~ is the digital data signal ~~(SEFMdata)~~.

10. (Currently amended) ~~Method~~ The method according to claim 8,

the method comprising the steps of:

[[ - ]] generating a digital data signal ~~(SEFMdata)~~ and a digital clock signal ~~(SCLK)~~;

[[ - ]] multiplexing these two signals into one single eight-to-fourteen encoded signal ~~(SMUX)~~;

[[ - ]] transferring said single eight-to-fourteen encoded signal ~~(SMUX)~~ to the laser driver circuit ~~(120; 220)~~;

[[ - ]] demultiplexing said single eight-to-fourteen encoded signal ~~(SMUX)~~ to regenerate a digital data signal ~~(SEFMdata)~~ and a digital clock signal ~~(SCLK)~~;

[[ - ]] applying the regenerated digital data signal ~~(SEFMdata)~~ and the regenerated digital clock signal ~~(SCLK)~~ to said flipflop device ~~(25)~~.

11. (New) A laser driver circuit for an optical writing system for an optical disc writing apparatus, the laser driver circuit comprising:

a signal input configured to receive a single encoded signal from an eight-to-fourteen encoder device which contains data information and clock information,

a flipflop device with a data input configured to receive a

digital data signal, and a clock input configured to receive a digital clock signal,

a signal generator comprising an input coupled to the signal input of the laser driver circuit, a data output coupled to the data input of the flipflop, and a clock output coupled to the clock input of the flipflop, wherein the signal generator is configured to generate at its data and clock outputs a digital data signal and a digital clock signal, respectively, from the data information and clock information received at its signal input.